

GILA RIVER BASIN

09503740 HELL CANYON TRIBUTARY NEAR ASHFORK, AZ

LOCATION.--Lat 35°05'02", long 112°24'28", in SW¹/₄ sec.30, T.20 N., R.1 W., Yavapai County, Hydrologic Unit 15060202, 0.5 mi upstream from mouth, and 11 mi southeast of Ashfork.

DRAINAGE AREA.--0.75 mi².

Annual peak discharges

Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes	Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes
1969	00-00-69	84		1974	00-00-74	0	
1970	09-04-70	4.0		1975	00-00-75	0	
1971	00-00-71	52		1976	02-09-76	10	
1972	04-00-72	4.0		1978	03-01-78	¹ 24	HP
1973	10-19-72	10		1980	02-19-80	20	HP

¹Highest since 1971.

Magnitude and probability of instantaneous peak flow based on period of record 1969-76, 1978, 1980

Discharge, in ft ³ /s, for indicated recurrence interval in years, and exceedance probability, in percent					
2 50%	5 20%	10 10%	25† 4%	50† 2%	100† 1%
10.5	32.3	57.4	105	156	220
Weighted skew	(logs) =	-0.08			
Mean	(logs) =	1.02			
Standard dev.	(logs) =	0.58			

† Reliability of values in column is uncertain, and potential errors are large.

Basin characteristics

Main channel slope (ft/mi)	Stream length (mi)	Mean basin elevation (ft)	Forested area (percent)	Soil index	Mean annual precipitation (in)	Rainfall intensity, 24-hour	
						2-year (in)	50-year (in)
78.4	1.7	5,180	91.0	3.0	17.2	1.7	3.8

